

WATER PROTECTION BUREAU

Agency Use	
Permit No.:	19
Date Rec'd \ C\/ (
Rec'd By	
b)	

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deg.mt.gov/wginfo/MPDES/CAFO.asp

Section A - NMP St	atus (Check one):
☐ New	No prior NMP submitted for this site.
☐ Modification	Change or update to existing NMP.
Permit Number: MT <u>(</u>	5/0219 (Specify the permit number that was previously assigned to your facility.)
Section B - Facility	
Site Name Niche	las Schutter Feedlet.
Site Location 139	3 Kuipers Rd
Nearest City or Town	
• -	nt (Owner/Operator) Information:
Owner or Operator Na	me Nick Schutter
Mailing Address 3	333 Kuipers Rd.
City, State, and Zip Co	ode Manhattan, MT 59741
Phone Number	406-294-6422.



Section D - NMP Minimum Elements:

1. Livestock Statistics				
Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds.or gal)		
1. Weaned Beef Calves 400	± 180 days.	#\$1,000 T		
2. ±750/bs. ±2,500				
3.				
4.				
5.				
6.		- Control of the Cont		
7.				
8.				
Method used for estimating annual manure production:	14 _11	^		
DEQ Circ. 9 Tables, pg 13		surfaced hot.		
2500 x 17.5 x 180 => 1	-4000			
2. Manure Handling Describe manure handling at the facility:				
Manure is scraped into piles and stored in the pens				
Manure is scraped into piles and stored in the pens Until removal to field spreading in late summer to early fall.				
Frequency of Manure Removal from confinement areas:				
and .				
Is this manure temporarily stored in any location other than the confinement area? Yes No If so then how and where?				
I	∀ 1 > 7			
•	X No			
If yes, describe type and characteristics of this surface:		2		

-

3. Waste Control Structures Waste Control Structure (name/type)				
THE TAXABLE AND ADDRESS OF THE PARTY OF THE	Length (ft)	Width (ft)	Depth (ft)	Volume (cubic ft or gallons)
1. HDPE lined Pord	190		Lepin (ii)	LAND (10
2. HDFE lined Pond	'. '	145	21	1,412,018 g
171/12 /1700 fora	150	40	4.5	201,974 9
4.				
5.				
6.				
7.				
3.				
9.				
10.				
11.				
12.				
Describe how dead animals are dispose Dead animals are burie		<u>-</u>	Approx L	I deep and covered
	edina begth cov site is	trench e of approx eryo Aniu exprex	36-4 1als are 200 y	18's Aminals are
Dead animals are buried with soil to a finish buried immediately after in the trenche Burial arge storage ponds. Clean Water Diversion Practices Describe how clean water is diverted fr	Site is See en	trench e of approx ery, Aniu s approx aclosed /	36-4 1015 are 2004 Марь	overed after placeme
Dead aminals are buried with soil to a finish wried immediately after buried immediately after buried arge storage ponds. Clean Water Diversion Practices Describe how clean water is diverted from the buries are conse	Site is See en	trench e of approx eryo Aniu c approx aclosed / n area: to dive	36-4 vals are 200 y Mapp	18's Aminals are covered after placeme ds NE of the
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6. Prohibiting Animals and Wastes from Contact with State Waters
Describe how animals and wastes are prohibited from direct contact with state waters:
2 lined ponds were constructed in 2006 per NRCS provided
design to trap + contain runoff from the facility Fences
design to tray + contain runoff from the facility. Fences keep the could from contacting canal waters.
7. Chemicals and Contaminants
Describe how chemicals and other contaminants are handled on-site:
Not. There are no chemicals or containinants on sixe
8. Best Management Practice (BMPS) Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable. As mentronedy Clean wetter ditches exist to route clean runoff water away from and around the facility. All "dirty" runoff water from inside the facility is routed to the ponds (lined) All pen fences t windbreaks are in excellent condition.
"Energy free" waterers are installed in all pens, and they do
170+ /eak.
Please see attended map showing ditches + pond

Describe in detail all temporary, permanent a used to control runoff of pollutants from faci practices. If not already in use, include a sch details and specifications may be used to sup include but are not limited to: maintaining se irrigation practices to prevent ponding of wa	lity's land applicated applicated and applicated applications application appl	ation area. Indicate the location of the entation of each of these measures. At iption. Examples of BMP measures compared to entation sites; never spray irrigating	ese tached ould naging wastes onto
frozen ground; consulting with the Departme ground; applying wastes at agronomic rates. Plant sampling/tissue analysis	yes/ng	Rotational grazing	yes/no
Conservation or reduced tillage	ves/no	Manure injection or incorporation	es/no
Terraces or other water control structures	yes/no	Contour plantings	yes/no
Riparian buffers or vegetative filter strips	yesyno	Winter "scavenger" or cover crops	yes/no)
Other examples			
9. Implementation, Operation, Maintenar	ice and Record K	eeping – Guidance	
The permittee is required to develop guidance maintenance of the facility, and record keep			and
Has a guidance document been developed for	or the facility?	Yes No	
Certify the document addresses the following Implementation of the NMP: Facility operation and maintenance: Record keeping and reporting: Sample collection and analysis: Manure transfer: Yes Yes	No No No No		•
Provide name, date and location of most reco			
3333 Keijzers Pro	Man froste	n, MT 5974/	
If your answer to any of the above question	is no, provide exp	lanation	

Section E - Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? No If no, then provide an explanation of how animal waste at this site are managed. Yes If yes, then the information requested in Section E must be provided.			
Photos and/or Maps Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items: Individual field boundaries for all planned land application areas A name, number, letter or other means of identifying each individual land application field The location of any down-gradient surface waters The location of any down-gradient open tile line intake structures The location of any down-gradient sinkholes The location of any down-gradient agricultural well heads The location of all conduits to surface waters The specific manure/waste handling or nutrient management restrictions associated with each land application field. The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.			
Land Application Equipment Calibration Describe the type of equipment used to land apply wastes and the calibrating procedures: Truck mounted ory manure greenders. Truck load is weiged then the length of pass and width are measured			
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.			
Manure Sample collection will occur according to the following method:			
The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe)			
Soil Sampling and Analysis Procedures A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater. Soil sample collection will occur according to the following method: The recommended method(s) found in Section 5 of Department Circular DEQ 9			
Other (describe)			

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Land Application Data-Narrative approach

The following must be filled out for each field to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. Fields with identical crops and soil types may be grouped together.

Crops and Manure

Field Name and spreadable acres for each (for fields with identical crops and soils type):

89.3 acres Field # 45

Crop 1 (year 1 or ?) plant species	Spring Wheat
rrigated (Y/N)	Yes
Yield Goal (ton/ac or bushel/ac)	110 bu @ 14.5% protien
N Content of soil as nitrate (lbs/acre or ppm)	24 lbs/acre
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	38 ppm
Time of Year When Application will Occur (month)	Sept./Oct.
Application frequency (per year by month)	Once
Form of manure (liquid/solid)	Solid
Method of Application	Spreading
Is manure incorporated or broadcast?	Broadcast, then incorporated
Frequency of Application (yearly, biannual, etc.?)	Once every 5 years
Crop 2	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample Method B - Phosphorus Index

Method A – Representative Soil Sample

a) Obtain one or more representative soil sample(s) from the field.

b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).

Using the results of the Olsen P test, determine the application basis according to the Table below

Test	
Olsen P Soil Test Result (ppm)	Application Basis
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B – Phosphorus Index

a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.

b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Site Vulnerability to Phosphorus Loss
Low
Medium
High
Very High
Less determine the appropriate application basis

Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

according to the table below.	
Site Vulnerability to Phosphorus Loss	L' L' Drois
Site Vulnerability to Phosphorus Loss	Application Basis
	Nitrogen Needs
Low	Nitrogen Needs
Medium	Phosphorus Need Up to Crop Removal
High	Phosphorus Crop Removal or No Application
Very High	Thosphoras Crop Leads

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d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Site/Field	Budget Worksheet		,
Site/F leiu	Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application
	Crop Nutrient Needs, lbs/acre included in Department Circular DEQ 9	300	100
(-)	Credits from previous legume crops, lbs/acre (from DEQ-9), as applicable	0	0
(-)	Residuals from past manure production, lbs/acre (lbs/acre applied in previous year(s) x fractions listed in DEQ-9)	0	0
(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	0	0
(-)	Nutrients supplied in irrigation water, lbs/acre	0	0
	= Additional Nutrients Needed, lbs/acre	300	100
	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1,000 gal (from manure test)	27	17.5
(x)	Nutrient Avalability factor (for Nitrogen based application see DEQ-9, below; for Phosphorus based application use 1.0)		1
	= Available Nutrients in Manure, lbs/ton or lbs/1,000 gal	27	17.5
	1.1 11./		00 F
	Additional Nutrients needed, lbs/acre (calculated above)	273	82.5
(/)	Available Nutrients in Manure, lbs/ton or lbs/1,000 gal (calculated above)	27.2	17.5
	= Manure Application Rate, tons/acre or 1,000 gal/acre	10	4.7

Comments:

Manure is applied in only one year of the five year crop rotation sequence used on my land.

Application of dry manure is typically followed by two years of wheat, one year of peas, another year of wheat, and then potatoes.

Thus our actual application rates may exceed the table rate for that one year, but the residual nutrients left over are accounted for in the nutrient budget for the following year's crop commercial fertilizer application requirements.

Our soils are very high in pH and Calcium. Thus "tie-up" of Phosphorous occurs readily on our soils.

Section F - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)	
Nicholas J. Schutter	
B. Title (Type or Print)	C. Phone No.
Owner	406-284-6422
D. Signature	E. Date Signed
Malita	3-8-2012
Return the Form NMP, Nutrient Management Plan to:	

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

RECEIVED

MAR 09 2012

DECUMPB

DEQWPB PERMITTING & COMPLIANCE DIV.



P.O. BOX 510, NORTHWOOD, ND 58267 Northwaad: (701) 587-6010 Benson: (320) 843-4109

MANURE REPORT

SAMPLE

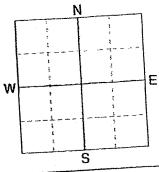
Solid Manure TYPE

SOURCE

Beef

STORAGE

LAB NUMBER BN318



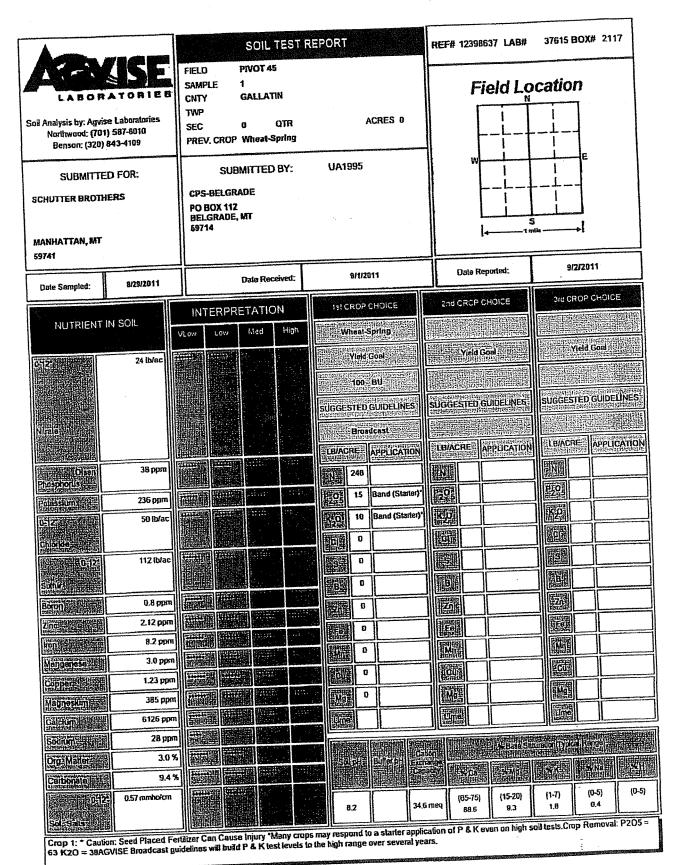
MOISTURE DRY MATTER 32 68

SUBMITTED FOR:

SCHUTTER BROS

SUBMITTED BY: UA1995 CPS-BELGRADE 88 EAST MAIN ST

	PO BOX 112	597	14 DRY MATTER	68
	BELGRADE, MT		Date Reported 9/8	/2011
te Sampled 09/07/11	Date Received 08/31/1		As Received	lb/1000 gal
	Dry B	4515	1.36	27.2
Jorali Nicogen (Q) ji		·		
Anmon Lin (Altrogen)				
Mrate Nicosan				
र्वे विद्यान । विद्यान ।				
Openie Nierosare		1.3	.88	18
Phosphate (1205).		3.9	2.6	53
Polarsh ((20)):		.23	,15	3.1
Sodjunk		3.9	2.7	54
GARIUM:		.77	.53	11
Magnesium:		170	110	.23
∕Zinei		3700	2500	5.1
Croni		250	170	.35
Mangarææe.		46	31	.063
Copperius		.46	.31	6.2
Stiliuri				
(Gilorida:				
ophy and the second				
Salui.			2.7	
්ලේක් ලබ්වනා ව		-		
Volatile Soldsi				



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